



PTO/SB/21 (04-04)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

		Application Number	10/791,244
		Filing Date	March 2, 2004
		First Named Inventor	Yang et al.
		Art Unit	2664
		Examiner Name	Wellington Chin
Total Number of Pages in This Submission		Attorney Docket Number	I-2-0455.1US

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Supplemental Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance communication to Technology Center (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Form PTO-1449 w/ a copy of the European Search Report dated April 12, 2005 and two (2) references
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Jeffrey M. Glabicki Volpe and Koenig, P.C.	Reg. No. 42,584
Signature		
Date	May 13, 2005	

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name	Jeffrey M. Glabicki		
Signature		Date	May 13, 2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the **PATENT APPLICATION** of:

Yang et al.

Application No.: 10/791,244

Confirmation No.: 3614

Filed: March 2, 2004

For: REDUCED COMPLEXITY SLIDING
WINDOW BASED EQUALIZER

Group: 2664

Examiner: Wellington Chin

Our File: I-2-0455.1US

Date: May 13, 2005

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Further to Applicants' Duty of Disclosure pursuant to 37 C.F.R. §1.56, Applicants wish to bring to the Examiner's attention the material cited on the enclosed PTO-1449 form. Newly cited documents are indicated by an asterisk (*). Copies of the newly cited documents are enclosed. Copies of previously cited documents are not included.

Pursuant to 37 C.F.R. § 1.97(e)(1), the undersigned certifies that each item of information contained in this Supplemental Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application, copy

Applicant: Yang et al.
Application No.: 10/791,244

enclosed, and that this communication was not received by any individual designated in §1.56(c) more than three (3) months prior to the filing of the supplemental information disclosure statement.

It is respectfully requested that the Examiner consider these documents and return an initialed copy of the PTO-1449 form indicating his consideration of the cited materials.

Respectfully submitted,

Yang et al.

By


Jeffrey M. Glabicki
Registration No. 42,584
(215) 568-6400

Volpe and Koenig, P.C.
United Plaza, Suite 1600
30 South 17th Street
Philadelphia, PA 19103

JMG/ks
Enclosures (3)

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		ATTY. DOCKET NO. I-2-0455.1US	SERIAL NO. 10/791,244
		APPLICANT Yang et al.	
		FILING DATE March 2, 2004	GROUP 2664



U. S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,412,620	05/1995	Cafarella et al.			
		5,487,069	01/1996	O'Sullivan et al.			
		5,559,757	09/1996	Catipovic et al.			
		5,577,066	11/1996	Schuchman et al.			
		5,612,978	03/1997	Blanchard et al.			
		5,796,814	08/1998	Brajal et al.			
		5,818,868	10/1998	Gaudenzi et al.			
		5,828,658	10/1998	Ottersten et al.			
		5,930,369	7/1999	Cox et al.			
		6,047,020	04/2000	Hottinen			
		6,097,753	08/2000	Ko			
		6,128,276	10/2000	Agee			
		6,137,848	10/2000	Chennakeshu et al.			
		6,141,393	10/2000	Thomas et al.			
		6,144,711	11/2000	Raleigh et al.			
		6,181,714B1	01/2001	Isaksson et al.			
		6,188,717 B1	02/2001	Kaiser et al.			
		6,289,005 B1	09/2001	Katz			
		6,321,066 B1	11/2001	Katz et al.			
		6,321,082 B1	11/2001	Katz			
		6,320,903 B1	11/2001	Isaksson et al.			
		6,359,926 B1	03/2002	Isaksson et al.			
		6,359,938 B1	03/2002	Keevill et al.			
		6,363,128 B1	03/2002	Isaksson et al.			
		6,366,554 B1	04/2002	Isaksson et al.			
		6,377,632 B1	04/2002	Paulraj et al.			

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449			ATTY. DOCKET NO. I-2-0455.1US		SERIAL NO. 10/791,244		
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			APPLICANT Yang et al..				
INFORMATION DISCLOSURE STATEMENT BY APPLICANT			FILING DATE March 2, 2004		GROUP 2664		
(Use several sheets if necessary)							
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		6,392,595 B1	05/2002	Katz et al.			
		6,396,801	05/2002	Upton et al.			
		6,438,174 B1	08/2002	Isaksson et al.			
		6,445,342 B1	09/2002	Thomas et al.			
		6,456,649 B1	09/2002	Isaksson et al.			
		6,466,629 B1	10/2002	Isaksson et al.			
		6,473,449 B1	10/2002	Cafarella et al.			
		6,473,453 B1	10/2002	Wilkinson			
		6,493,395 B1	12/2002	Isaksson et al.			
		6,505,053 B1	01/2003	Winters et al.			
		6,512,737 B1	01/2003	Agee			
		6,538,986 B2	03/2003	Isaksson et al.			
		6,553,012 B1	04/2003	Katz			
		6,611,855 B1	08/2003	Hellberg et al.			
		6,618,431 B1	09/2003	Lee			
		6,643,526 B1	11/2003	Katz			
		6,658,619 B1	12/2003	Chen			
		6,680,969 B1	01/2004	Molnar et al.			
		6,662,024 B2	12/2003	Walton et al.			
		6,671,334 B1	12/2003	Kuntz et al.			
		6,684,065 B2	01/2004	Bult et al.			
		6,693,953 B2	02/2004	Cox et al.			
		6,724,743 B1	04/2004	Pigeonnat			
		6,729,929 B1	05/2004	Sayers et al.			
		6,744,320 B2	06/2004	Nguyen et al.			
		6,745,352 B2	06/2004	Cheng			
EXAMINER				DATE CONSIDERED			

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449		ATTY. DOCKET NO. I-2-0455.1US	SERIAL NO. 10/791,244
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		APPLICANT Yang et al.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		FILING DATE March 2, 2004	GROUP 2664
(Use several sheets if necessary)			

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		2003/0035491 A1	02/2003	Walton et al.			
		2003/0043732 A1	03/2003	Walton et al.			
		2003/0043767 A1	03/2003	Pan et al.			
		2003/0043887 A1	03/2003	Hudson			
		2003/0043925 A1	03/2003	Stopler et al.			
		2003/0048856 A1	03/2003	Ketchum et al.			
		2003/0058952 A1	03/2003	Webster et al.			
		2003/0063557 A1	04/2003	Mottier			
		2003/0072291 A1	04/2003	Brunel			
		2003/0076908 A1	04/2003	Huang et al.			
		2003/0076900 A1	04/2003	Magee et al.			
		2003/0081781 A1	05/2003	Jensen et al.			
		2003/0086366 A1	05/2003	Branlund et al.			
		2003/0099216 A1	05/2003	Nilsson et al.			
		2003/0103584 A1	06/2003	Bjerke et al.			
		2003/0108117 A1	06/2003	Ketchum et al.			
		2003/0112880 A1	06/2003	Walton et al.			
		2003/0123384 A1	07/2003	Agee			
		2003/0125040 A1	07/2003	Walton et al.			
		2003/0128658 A1	07/2003	Walton et al.			
		2003/0129984 A1	07/2003	Dent			
		2003/0133403 A1	07/2003	Castelain et al.			
		2003/0147655 A1	08/2003	Shattil			
		2003/015021 A1	08/2003	Wang et al.			
		2003/0165131 A1	09/2003	Liang et al.			
		2003/0185310 A1	10/2003	Ketchum et al.			

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		ATTY. DOCKET NO. I-2-0455.1US	SERIAL NO. 10/791,244
		APPLICANT Yang et al.	
		FILING DATE March 2, 2004	GROUP 2664

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	2003/0215007 A!	11/2003	Mottier			
	2003/0216154 A1	11/2003	Mennenga et al.			
	2003/0227866 A1	12/2003	Yamaguchi			
	2003/0235255 A1	12/2003	Ketchum et al.			
	2004/0032354 A1	02/2004	Knobel et al.			
	2004/0032918 A1	2/2004	Shor et al.			
	2004/0052236 A1	03/2004	Hwang et al.			
	2004/0086027 A1	05/2004	Shattil			
	2004/0086035 A1	05/2004	Upton et al.			
	2004/0087275 A1	05/2004	Sugar et al.			
	2004/0095907 A1	05/2004	Agee et al.			
	2004/0100897 A1	05/2004	Shattil			
	2004/0101046 A1	05/2004	Yang et al.			
	2004/0116077 A1	06/2004	Lee et al.			
	2004/0120274 A1	06/2004	Petre et al.			
	2004/0120424 A1	06/2004	Roberts			
	2004/0136399 A1	07/2004	Roberts			
	2004/0141548 A1	07/2004	Shattil			
	2004/0142663 A1	07/2004	Roberts			
	2004/0146024 A1	07/2004	Li et al.			
	6,219,561 B1	04/2001	Raleigh			
	5,805,638 A	09/1998	Liew			
	6,674,795 B1	01/2004	Liu et al.			
	6,700,919 B1	03/2004	Papasakellarious			
	6,674,795 B1	01/2004	Liu et al.			
	6,700,919 B1	03/2004	Papasakellarious			

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		ATTY. DOCKET NO. I-2-0455.1US	SERIAL NO. 10/791,244
		APPLICANT Yang et al.	
		FILING DATE March 2, 2004	GROUP 2664

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	95/22859	08/1995	WO				
	95/27349	10/1995	WO				
	96/22638	07/1996	WO				
	0 766 468 A2	04/1997	EP				
	97/34421	09/1997	WO				
	97/35384	09/1997	WO				
	97/48192	12/1997	WO				X
	98/09395	03/1998	WO				
	98/10545	03/1998	WO				
	98/10549	03/1998	WO				
	98/10550	03/1998	WO				
	98/10552	03/1998	WO				
	98/10553	03/1998	WO				
	98/10554	03/1998	WO				
	98/10555	03/1998	WO				
	98/18272	04/1998	WO				
	98/36596	08/1998	WO				
	98/36598	08/1998	WO				
	98/36599	08/1998	WO				
	98/37638	08/1998	WO				
	99/49602	09/1999	WO				

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449			ATTY. DOCKET NO. I-2-0455.1US		SERIAL NO. 10/791,244			
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)			APPLICANT Yang et al.					
			FILING DATE March 2, 2004		GROUP 2664			
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
		99/62280	12/1999	WO				
		00/11823	03/2000	WO				
		1 017 183 A2	07/2000	EP				
		00/52872	09/2000	WO				
		1 047 209 A1	10/2000	EP				
		1 063 780 A2	12/2000	EP				
		01/10065 A1	02/2001	WO				
		01/33761 A1	05/2001	WO				
		01/33791 A1	05/2001	WO				
		01/47202 A2	06/2001	WO				
		01/47203 A2	06/2001	WO				X
		1 119 146 A2	07/2001	EP				
		01/53932 A2	07/2001	WO				
		01/54300 A2	07/2001	WO				
		01/54305 A1	07/2001	WO				
		1 139 632 A1	10/2001	EP				
		1 175 022 A2	01/2002	EP				
		02/29977 A2	04/2002	WO				
		02/054601 A1	07/2002	WO				
		02/054537 A1	07/2001	WO				
		02/061962 A1	08/2002	WO				
		02/067527 A2	08/2002	WO				
		02/073937 A2	09/2002	WO				
		02/080483 A1	10/2002	WO				
		WO/082683 A2	10/2002	WO				
EXAMINER				DATE CONSIDERED				

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		ATTY. DOCKET NO. I-2-0455.1US	SERIAL NO. 10/791,244
		APPLICANT Yang et al.	
		FILING DATE March 2, 2004	GROUP 2664

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	02/082683 A2	10/2002	WO				
	1 255 387 A1	11/2002	EP				
	02/093779 A2	11/2002	WO				
	02/093784 A1	11/2002	WO				
	02/093819 A1	11/2002	WO				
	03/005291 A1	01/2003	WO				
	03/010898 A1	02/2003	WO				
	03/015292 A2	02/2003	WO				
	1 289 182 A2	03/2003	EP				
	03/026237 A2	03/2003	WO				
	03/028270 A1	04/2003	WO				
	1 300 999 A1	04/2003	EP				
	1 303 094 A2	04/2003	EP				
	03/044983 A2	05/2003	WO				
	03/081823 A1	10/2003	WO				
	03/084092 A2	10/2003	WO				
	1 357 693 A1	10/2003	EP				
	03/092212 A1	11/2003	WO				
	1 365 554 A1	11/2003	EP				
	2004/002047 A1	12/2003	WO				
	1 379 020 A1	01/2004	EP				
	2004/003743 A1	01/2004	WO				
	2004/008704 A1	01/2004	WO				
	2004/023704 A2	03/2004	WO				
	2004/023704 A2	03/2004	WO				

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<p>FORM PTO-1449</p> <p>U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(Use several sheets if necessary)</p>	ATTY. DOCKET NO. I-2-0455.1US	SERIAL NO. 10/791,244
	APPLICANT Yang et al.	
	FILING DATE March 2, 2004	GROUP 2664

FOREIGN PATENT DOCUMENTS

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449		ATTY. DOCKET NO. I-2-0455.1US	SERIAL NO. 10/791,244
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		APPLICANT Yang et al.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		FILING DATE March 2, 2004	GROUP 2664
(Use several sheets if necessary)			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		"Fast Algorithm for Solving Toeplitz Systems of Equations", IBM Technical Disclosure Bulletin, May 1980, US, Vol. 22 No. 12.
		"Fast Algorithm for Solving Toeplitz Systems of Equations" _IBM Technical Disclosure Bulletin, May 1980, US, Vol. 22. No. 12.
*		Vollmer et al., "Comparative Study of Joint-Detection Techniques for TD-CDMA Based Mobile Radio Systems", IEEE Journal on Selected Areas in Communications, Vol. 19, No. 8, August 2001, pp. 1461-1475.
*		Haykin, "Adaptive Filter Theory", Third Edition, Prentice Hall, 1996, pp. 87-93,

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.